

WHAT IS CLAIMED IS:

skA 1. A method of attaching a first unit onto a support piece, said first unit being a portion of a machine for processing at least one of paper, cardboard and tissue, said first unit including a shaped part and a wear part, comprising the steps of:

interlocking said shaped part and said support piece;

5 providing a clamping device positioned relative to said shaped part and said support piece; and

clamping said shaped part and said support piece together using said clamping device, thereby clamping said shaped part and said support piece in a manner such that an operating tolerance therebetween is at least substantially eliminated, that a quick and non-destructive
10 change-over of said shaped part and that a common sealing between said shaped part and said support piece results, said common sealing essentially preventing both fiber-loaded and dirt-loaded processing water from penetrating between said shaped part and said support piece.

2. The method of claim 1, wherein said first unit is one of a dewatering strip, deflector and slotted suction unit.

3. The method of claim 1, wherein clamping is achieved in a manner such that vibrations are substantially eliminated, said clamping thereby effecting oscillation dampening.

4. The method of claim 1, wherein said first unit is a foil deflector having an associated angular position, said clamping being achieved in a manner such that said angular position of said foil deflector effectively remains constant during said clamping step.

skA2 5. ~~An arrangement for use within a machine for at least one of making and processing at least one of paper, cardboard and tissue, said arrangement comprising.~~

a first unit having a shaped part together with a wear part, said shaped part having a part underside, said part underside having an underside length, said shaped part displaying a part
5 contour upon said part underside along substantially all of said underside length;

a support piece interlocking with said shaped part, said support piece having a support piece top and a corresponding top length, said support piece having a piece contour upon said support piece top along substantially all of said top length, said piece contour being substantially complimentary to said part contour; and

10 at least one clamping device operatively positioned relative to both said part contour and said piece contour. *to clamping device*

6. The arrangement of claim 5, wherein said first unit is one of a dewatering strip, a deflector, and a slotted suction unit.

7. The arrangement of claim 5, wherein said part contour is an inside contour within said shaped part, said piece contour being an outside contour of said support piece.

8. The arrangement of claim 7, said inside contour including a two-part T-groove on a first side of said shaped part, said inside contour further including a two-part dovetail groove on a second side of said shaped part, said outside contour including a two-part T-rib on a first side of said support piece, said outside contour further including a dovetail rib on a second side of
5 said support piece, one said clamping device being located proximate said two-part dovetail groove and said dovetail rib.

all 9. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib.

10. The arrangement of claim 9, wherein said T-groove has a grooved bottom, said
Fig 2 grooved bottom having a recess therein, said clamping device being mounted substantially centrally relative to said grooved bottom.

11. The arrangement of claim 7, wherein said shaped part has a dovetail groove, said inside contour including a first parallel base, said support piece having a dovetail rib, said outside contour including a second parallel base, said clamping device being installed adjacent to both said dovetail groove and said dovetail rib.

12. The arrangement of claim 11, wherein said inside contour includes a grooved bottom, said grooved bottom having a recess therein.

13. The arrangement of claim 7, wherein said inside contour includes a T-groove, said T-groove having a first groove face and a second groove face associated therewith, said outside contour including a T-rib, said T-rib having a first rib face and a second rib face associated therewith, said at least one clamping device including a first clamping device and a second clamping device, said first groove face opposing said first rib face with said first clamping device installed therebetween, said second groove face opposing said second rib face with said second clamping device installed therebetween.

14. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib, said inside contour including a grooved bottom, said grooved bottom having a recess therein.

15. The arrangement of claim 7, wherein said inside contour includes a T-groove, said inside contour having a clamping rail associated therewith, said outside contour including a T-rib, said clamping device being positioned between said T-rib and said clamping rail.

16. The arrangement of claim 15, wherein said T-rib has a V-groove substantially centered thereon, said clamping device being positioned in said V-groove.

17. The arrangement of claim 7, wherein said inside contour includes a T-groove, said inside contour including a grooved bottom, said outside contour including a T-rib, said T-rib

having a rib top side, said at least one clamping device being installed between said rib top side and said grooved bottom.

Fig 7
18. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib, said T-rib having a parallel base and a first bevel side and a second bevel side, said first bevel side and said second bevel side each progressing from a respective T-rib bottom toward an outside of said T-rib, said at least one clamping device
5 including a first clamping device and a second clamping device, said first clamping device being positioned adjacent said first bevel side, said second clamping device being positioned adjacent said second bevel side.

Fig 8
19. The arrangement of claim 7, wherein said inside contour includes a dovetail groove, said inside contour including a grooved bottom, said outside contour including a dovetail rib, said clamping device being installed substantially centered in said grooved bottom.

Fig 9
20. The arrangement of claim 7, wherein said inside contour includes a dovetail groove, said inside contour including a grooved bottom, said grooved bottom having a recess therein.

Fig 10
21. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib, said inside contour including a grooved bottom, said grooved bottom having a recess therein, said clamping device being installed in said recess.

Fig 11
22. The arrangement of claim 7, wherein said inside contour includes a dovetail groove, said dovetail groove having a first angled groove surface and an opposed second angled groove surface associated therewith, said outside groove including a dovetail rib, said dovetail rib having a first angled rib surface and a second angled rib surface associated therewith, said first
5 angled rib surface and said first angled groove surface forming a first contour set, said second angled rib surface and said second angled groove surface forming a second contour set, each said

clamping device being a pivoting clamping device, each said pivoting clamping device being located in said support piece between one of said first contour set and said second contour set.

23. The arrangement of claim 7, wherein said inside contour includes a dovetail groove, said dovetail groove having a first angled groove surface and an opposed second angled groove surface associated therewith, said outside groove including a dovetail rib, said dovetail rib having a first angled rib surface and a second angled rib surface associated therewith, said first angled rib surface and said first angled groove surface forming a first contour set, said second angled rib surface and said second angled groove surface forming a second contour set, each said clamping device being an expansive clamping device, each said expansive clamping device being located in said support piece between one of said first contour set and said second contour set.

Fig 12

24. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib, said T-rib having a rib bevel side, said rib bevel side progressing from a respective T-rib bottom toward the respective outside of said T-rib, said clamping device being positioned proximate said rib bevel side.

Fig 13

25. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib, said T-rib having a first root face and a second root face on opposing sides thereof, said first root face being shorter than said second root face, said clamping device being positioned proximate said first root face.

Fig 14

26. The arrangement of claim 7, wherein said inside contour includes a T-groove, said outside contour including a T-rib, said clamping device being mounted substantially centered on said T-rib, said clamping device being configured for acting upon said T-groove.

27. The arrangement of claim 26, wherein said T-groove has a grooved bottom, said clamping device being configured for acting upon said T-groove in a region of said grooved bottom.

28. The arrangement of claim 5, wherein at least one said clamping device is an eccentric with a related operating device.

29. The arrangement of claim 5, wherein at least one said clamping device is an elastomeric tube having a certain operating pressure.

30. The arrangement of claim 29, wherein the operating pressure is in the approximate range of 0.5 bar to 5 bar.

31. The arrangement of claim 30, wherein the operating pressure is in the approximate range of 2 bar to 3.5 bar. .

32. The arrangement of claim 29, wherein the operating pressure is produced by one pressure source.

33. The arrangement of claim 32, wherein said one pressure source supplies at least one clamping device with pressure.

34. The arrangement of claim 33, wherein said one pressure source supplies all of said clamping devices with pressure.

35. The arrangement of claim 5, wherein at least one said clamping device is a bolt element, said bolt element having a flange and being activated by an associated operating device.

36. The arrangement of claim 35, wherein said associated operating device is a pressure producing element having an operating direction of action associated therewith.

37. The arrangement of claim 36, wherein said pressure producing element is a spring element.

38. The arrangement of claim 36, further comprising a recoil device, said recoil device being operatively positioned against said flange, said recoil device having a recoil direction associated therewith, said recoil direction being opposite said operating direction of action of said associated operating device, said recoil device being configured for activating said associated bolt element.

39. The arrangement of claim 5, wherein at least one said clamping device is at least one ball element, each said ball element being activated by an associated operating device.

40. The arrangement of claim 35, wherein said associated operating device is a pressure producing element having an operating direction of action associated therewith.

41. The arrangement of claim 36, wherein said pressure producing element is a spring element.

42. The arrangement of claim 5, wherein said clamping device is resistant to process water which is one of alkaline and acidic.

43. The arrangement of claim 42, wherein the process water has a pH in the approximate range of 2.5 to 12.

44. The arrangement of claim 5, wherein at least one said clamping device is resistant to all solvents and chemicals.

45. The arrangement of claim 5, wherein at least one said clamping device is hydrolysis resistant and is thereby resistant to swelling.

46. The arrangement of claim 5, wherein said wear part consists essentially of one of a ceramic material, a thermoplastic material and a composite thereof.

47. The arrangement of claim 5, wherein said shaped part consists essentially of one of a ceramic material, a duroplastic material, a thermoplastic material and a composite thereof.

48. The arrangement of claim 5, wherein said shaped part and said wear part are designed as one combined unit, said combined unit being composed of one material, said material being one of a ceramic and a thermoplastic.

49. The arrangement of claim 5, wherein said support piece consists of one of stainless steel and a duroplastic material.

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